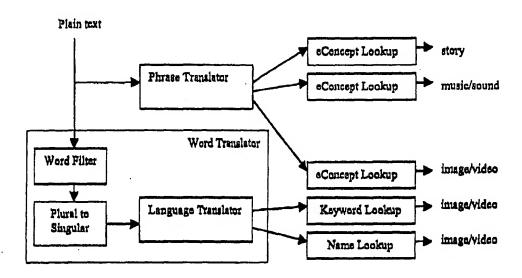
This document describes the process of turning plain text into computer generated animation. The process of generating animation from a library of images, sound, music, component animation, and story structure has already been described in a previous patent application (Application number ??? on 5/7/1999). This document focuses on the process of turning plain text into criteria of selection animation components.



The end goal of the system is to find suitable story, music/sound, and image/video from the input plain text. This is done by analyzing phrases and by analyzing words.

## Phrase Translator

The phrase translator looks for phrase matches between the original text and phrases in the Phrase-Template Library. The Phrase-Template Library contains matching between phrases and concept keywords. For example:

Phraso	Keyward	Language
Happy • birthday	eBirthday	English
Herzliche Glueckwuensche zum * Geburtstag	<b>oBirthday</b>	German
It's a boy	eBaby	English

The phrases can contain wildcard. In this case the "Happy \* birthday" phrase will match both "happy birthday", and "happy 30<sup>th</sup> birthday" in the original text. Since the language of the original text is known, the text is only compared to the phrases of that language in the Phrase-Template Library. This helps to reduce the search time.

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The end result of the Phrase Translator is a set of keywords. These keywords are then used to look up appropriate stories, music/sound, image/video for the final animation assembly. The assembly process is covered in a previous patent application.

## Word Translator

The Word Translator break up the incoming plain text into a collection of words and find matches with the images and videos in the library. The collection of words goes through the 3 components of the Word Translator as follows:

Word Filter - this component removes words that are unnecessary or confusing for the image/video lookup process. For instance, it removed most prepositions.

Plural to Singular - this component converts all plural nouns to singular nouns

Language Translator - this component translates the original language to English.

The end result of the Word Translator is a collection of <u>English</u> words that are <u>relevant</u> to the search for image/video. It is necessary for all the words to be in English because the library of image/video content are indexed by English words.